

What is claimed is:

1. A reading/recording apparatus comprising:
 - a shared conveying path having at least part
 - 5 thereof used as both a conveying path for an original
 - and a conveying path for a recording medium;
 - an original conveying device that conveys the
 - original on said shared conveying path;
 - a reading device that reads an image of the
 - 10 original at a reading position on said shared conveying
 - path;
 - a recording device that records the read image on
 - the recording medium at a recording position on said
 - shared conveying path;
 - 15 a recording medium conveying device that is
 - movable between a sharing state where the recording
 - medium conveying device shares a space with the
 - conveying path for the original and a non-sharing state
 - where the recording medium conveying device does not
 - 20 share the space with the conveying path for the
 - original, and conveys the recording medium on said
 - shared conveying path;
 - a state detecting device that detects a state of
 - said recording medium conveying device; and
 - 25 a control device that stops conveyance of the
 - original by said original conveying device when said
 - recording medium conveying device is detected to be in

the sharing state by said state detecting device during a reading operation on the original by said reading device.

2. A reading/recording apparatus according to
5 claim 1, wherein the non-sharing state is an initial state where said recording medium conveying device is on standby when said recording device does not carry out a recording operation on the recording medium.

3. A reading/recording apparatus according to
10 claim 2, comprising a notification device operable when said recording medium conveying device is detected to be in the sharing state by said state detecting device, to notify that said recording medium conveying device is not in the initial state.

15 4. A reading/recording apparatus according to claim 1, comprising a notification device operable when said recording medium conveying device is detected to be in the sharing state by said state detecting device, to notify that said original conveying device does not
20 carry out an operation of conveying the original.

5. A reading/recording apparatus according to claim 1, comprising a leading edge detecting device operable when said recording medium conveying device is detected to be in the non-sharing state, to detect a
25 leading edge of the original passing on said shared conveying path, and wherein when the leading edge of the original has not been detected, said state

detecting device detects the state of said recording medium conveying device again.

6. A reading/recording apparatus according to claim 5, further comprising a reading control device operable when the leading edge of the original has not been detected, to temporarily stop the reading operation by said reading device.

7. A reading/recording apparatus according to claim 1, wherein said recording medium conveying device has a non-circular roller, and said recording medium conveying device is movable between the sharing state and the non-sharing state through rotation of said non-circular roller.

8. A reading/recording apparatus according to claim 1, comprising a storage device that stores image information based on the image of the original read by said reading device.

9. A reading/recording apparatus according to claim 1, wherein said reading device is movable between the reading position and a reading standby position apart from the reading position, and said recording device shares a moving space on said shared conveying path with said reading device, said recording device being movable between the recording position and the recording standby position apart from the recording position.

10. A reading/recording apparatus comprising:

a shared conveying path having at least part thereof used as both a conveying path for an original and a conveying path for a recording medium;

an original conveying device that conveys the
5 original on said shared conveying path;

a reading device that reads an image of the original at a reading position on said shared conveying path;

a recording device that records the read image on
10 the recording medium at a recording position on said shared conveying path;

a recording medium conveying device that is movable between a sharing state where the recording medium conveying device shares a space with the
15 conveying path for the original and a non-sharing state where the recording medium conveying device does not share the space with the conveying path for the original, and conveys the recording medium on said shared conveying path;

20 a state detecting device that detects a state of said recording medium conveying device; and

a control device that inhibits conveyance of the original by said original conveying device when said recording medium conveying device is detected to be in
25 the sharing state by said state detecting device before start of a reading operation on the original by said reading device.

11. A reading/recording apparatus according to claim 10, wherein the non-sharing state is an initial state where said recording medium conveying device is on standby when said recording device does not carry
5 out a recording operation on the recording medium.

12. A reading/recording apparatus according to claim 11, comprising a notification device operable when said recording medium conveying device is detected to be in the sharing state by said state detecting
10 device, to notify that said recording medium conveying device is not in the initial state.

13. A reading/recording apparatus according to claim 10, comprising a notification device operable when said recording medium conveying device is detected
15 to be in the sharing state by said state detecting device, to notify that said original conveying device does not carry out an operation of conveying the original.

14. A reading/recording apparatus according to
20 claim 10, comprising a reading control device that permits the reading operation to be started when said recording medium conveying device is detected to be in the non-sharing state.

15. A reading/recording apparatus according to
25 claim 10, comprising:

a conveying medium detecting device operable when said recording medium conveying device is detected to

be in the sharing state, to detect whether a conveying medium exists on said shared conveying path; and

a forcible discharge device operable when the conveying medium is detected to exist on said shared
5 conveying path, to forcibly discharges the conveying medium.

16. A reading/recording apparatus according to claim 15, comprising a reading control device that permits the reading operation to be started when said
10 recording medium conveying device is detected to be in the non-sharing state after the conveying medium has been forcibly discharged by said forcible discharge device.

17. A reading/recording apparatus according to claim 10, wherein said recording medium conveying
15 device has a non-circular roller, and said recording medium conveying device is movable between the sharing state and the non-sharing state through rotation of said non-circular roller.

20 18. A reading/recording apparatus according to claim 10, comprising a storage device that stores image information based on the image of the original read by said reading device.

19. A reading/recording apparatus according to
25 claim 10, wherein said reading device is movable between the reading position and a reading standby position apart from the reading position, and said

recording device shares a moving space on said shared conveying path with said reading device, said recording device being movable between the recording position and the recording standby position apart from the recording
5 position.

20. A reading/recording apparatus comprising:

a shared conveying path having at least part thereof used as both a conveying path for an original and a conveying path for a recording medium;

10 an original conveying device that conveys the original on said shared conveying path;

a reading device that reads an image of the original at a reading position on said shared conveying path;

15 a recording device that records the read image on the recording medium at a recording position on said shared conveying path;

a recording medium conveying device that is movable between a sharing state where the recording
20 medium conveying device shares a space with the conveying path for the original and a non-sharing state where the recording medium conveying device does not share the space with the conveying path for the original, and conveys the recording medium on said
25 shared conveying path;

a state detecting device that detects a state of said recording medium conveying device; and

a control device that causes said recording medium conveying device to move into the non-sharing state when said recording medium conveying device is detected to be in the sharing state by said state detecting
5 device at a start of a reading operation on the original by said reading device.

21. A reading/recording apparatus according to claim 20, wherein the non-sharing state is an initial state where said recording medium conveying device is
10 on standby when said recording device does not carry out a recording operation on the recording medium.

22. A reading/recording apparatus according to claim 21, comprising a notification device operable when said recording medium conveying device is detected
15 to be in the sharing state by said state detecting device, to notify that said recording medium conveying device is not in the initial state.

23. A reading/recording apparatus according to claim 20, comprising a notification device operable
20 when said recording medium conveying device is detected to be in the sharing state by said state detecting device, to notify that said original conveying device does not carry out an operation of conveying the original.

25 24. A reading/recording apparatus according to claim 20, wherein said recording medium conveying device has a non-circular roller, and said recording

medium conveying device is movable between the sharing state and the non-sharing state through rotation of said non-circular roller.

25. A reading/recording apparatus according to
5 claim 20, comprising a storage device that stores image information based on the image of the original read by said reading device.

26. A reading/recording apparatus according to
claim 20, wherein said reading device is movable
10 between the reading position and a reading standby position apart from the reading position, and said recording device shares a moving space on said shared conveying path with said reading device, said recording device being movable between the recording position and
15 the recording standby position apart from the recording position.

27. A reading control method of performing a reading operation of reading an image on an original and a recording operation of recording the read image
20 onto a recording medium on a shared conveying path having at least part thereof used as both a conveying path for the original and a conveying path for the recording medium, comprising:

an original conveying step of conveying the
25 original on said shared conveying path;

a reading step of reading an image of the original at a reading position on said shared conveying path;

a recording step of recording an image on the recording medium at the recording position;

a recording medium conveying step of causing a recording medium conveying device to convey the
5 recording medium on said shared conveying path, said recording medium conveying device being movable between a sharing state where the recording medium conveying device shares a space with the conveying path for the original and a non-sharing state where the recording
10 medium conveying device does not share the space with the conveying path for the original;

a state detecting step of detecting a state of said recording medium conveying device; and

a control step of stopping conveyance of the
15 original in said original conveying step when said recording medium conveying device is detected to be in the sharing state in said state detecting step during a reading operation on the original in said reading step.

28. A reading control method of performing a
20 reading operation of reading an image on an original and a recording operation of recording the read image onto a recording medium on a shared conveying path having at least part thereof used as both a conveying path for the original and a conveying path for the
25 recording medium, comprising:

an original conveying step of conveying the original on said shared conveying path;

a reading step of reading an image of the original at a reading position on said shared conveying path;

a recording step of recording an image on the recording medium at the recording position;

5 a recording medium conveying step of causing a recording medium conveying device to convey the recording medium on said shared conveying path, said recording medium conveying device being movable between a sharing state where the recording medium conveying
10 device shares a space with the conveying path for the original and a non-sharing state where the recording medium conveying device does not share the space with the conveying path for the original;

a state detecting step of detecting a state of
15 said recording medium conveying device; and

a control step of inhibiting conveyance of the original in said original conveying step when said recording medium conveying device is detected to be in the sharing state in said state detecting step before a
20 start of a reading operation on the original in said reading step.

29. A reading control method of performing a reading operation of reading an image on an original and a recording operation of recording the read image
25 onto a recording medium on a shared conveying path having at least part thereof used as both a conveying path for the original and a conveying path for the

recording medium, comprising:

an original conveying step of conveying the original on said shared conveying path;

a reading step of reading an image of the original
5 at a reading position on said shared conveying path;

a recording step of recording an image on the recording medium at the recording position;

a recording medium conveying step of causing a recording medium conveying device to convey the
10 recording medium on said shared conveying path, said recording medium conveying device being movable between a sharing state where the recording medium conveying device shares a space with the conveying path for the original and a non-sharing state where the recording
15 medium conveying device does not share the space with the conveying path for the original;

a state detecting step of detecting a state of said recording medium conveying device; and

a control step of causing said recording medium
20 conveying device to move into the non-sharing state when said recording medium conveying device is detected to be in the sharing state in said state detecting step at a start of a reading operation on the original in said reading step.

25 30. A program for causing a computer to execute a reading control method according to claim 27.

31. A program for causing a computer to execute a

reading control method according to claim 28.

32. A program for causing a computer to execute a reading control method according to claim 29.